IN THE CLAIMS:

Please cancel Claims 17-18.

1. (Original) Process for preparing stereoisomer-enriched 3-heteroaryl-3-hydroxypropanoic acid derivatives, comprising reacting compounds of the formula (I)

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heteroaryl-CO-CH₂W (I).

in which

heteroaryl is a monocyclic or bicyclic aromatic radical having a total of from 5 to 10 ring atoms, where none, one or two ring atoms, selected from the group oxygen, sulphur and nitrogen, is present per cycle and one or two is present in the entire aromatic radical, and where the monocyclic or bicyclic aromatic radical is optionally substituted, once, twice or three times, by radicals which are selected, in each case independently of each other, from the group hydroxyl, C₁-C₈-alkyl, cyano, COOH, COOM, where M is an alkali metal ion or a half equivalent of an alkaline earth metal ion, COO-(C₁-C₄-alkyl), O-(C₁-C₄-alkyl), N(C₁-C₄-alkyl)₂, NH-(C₁-C₄-alkyl), NO₂, fluorine, chlorine, bromine, C₁-C₄-fluoroalkyl, CONH₂ and CONH-(C₁-C₄-alkyl), and

- W is $C(O)YR^{1}_{n}$, where Y is = oxygen and n is = 1 or Y is nitrogen and n is = 2, or
- W is CN, and
- are, in each case independently of each other, hydrogen, C₁-C₈-alkyl, C₄-C₁₀-aryl or C₅-C₁₁-arylalkyl or, when Y is nitrogen, the two radicals R¹ are together C₃-C₅ alkylene, in the presence of microorganisms and/or cell preparations thereof, and in the presence of water having a pH range of from 3 to 11, based on 25°C.

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to produce enantiomer-enriched compounds of the formula (II),

heteroaryl-CH(OH)-CH₂W (II),

in which heteroaryl and W have the abovementioned meaning.

- 2. (Original) Process according to Claim 1, characterized in that, in the formulae (I) and (II), heteroaryl is a monocyclic aromatic radical which has a total of 5 or 6 ring atoms and in which one or two ring atoms is/are selected from the group oxygen, sulphur and nitrogen, and where the monocyclic aromatic radical contains no, one or two radical(s) which is/are selected, in each case independently of each other, from the group methyl, ethyl, n-propyl, isopropyl, cyano, COOH, COONa, COOK, COO-methyl, COO-ethyl, COO-tert-butyl, COO-phenyl, methoxy, ethoxy, dimethylamino, diethylamino, methyl-amino, ethylamino, fluorine, chlorine, NO₂, trifluoromethyl, pentafluoroethyl, heptafluoroisopropyl, CONH₂ and CONH-methyl.
- 3. (Original) Process according to Claim 1, characterized in that, in the formulae (I) and (II), heteroaryl is 2-thiophenyl.
- 4. (Original) Process according to Claim 1, characterized in that, use is made of methyl 3-oxo-3-(2-thiophenyl)propanoate, ethyl 3-oxo-3-(2-thiophenyl)propanoate, methyl 3-oxo-3-(3-thiophenyl)propanoate, methyl 3-oxo-3-(2-furanyl)propanoate, ethyl 3-oxo-3-(2-furanyl)propanoate, methyl 3-oxo-3-(3-furanyl)propanoate, methyl 3-oxo-3-(3-furanyl)propanoate, methyl 3-oxo-3-(2-pyridinyl)propanoate, ethyl 3-oxo-3-(2-pyridinyl)propanoate, ethyl 3-oxo-3-(3-pyridinyl)propanoate, methyl 3-oxo-3-(4-pyridinyl)propanoate, ethyl 3-oxo-3-(4-pyridinyl)propanoate, a-oxo-3-(2-thiophenyl)propanonitrile, 3-oxo-3-(3-thiophenyl)propanonitrile, 3-oxo-3-(2-furanyl)propanonitrile, 3-oxo-3-(3-furanyl)propanonitrile, 3-oxo-3-(2-pyridinyl)propanonitrile, 3-oxo-3-(3-pyridinyl)propanonitrile, 3-oxo-3-(4-pyridinyl)propanonitrile, 3-oxo-3-(3-pyridinyl)propanonitrile, 3-oxo-3-(4-pyridinyl)propanonitrile and N-(methyl)-3-oxo-3-(2-thiophenyl)propanamide.

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- 5. (Original) Process according to Claim 1, characterized in that the microorganisms employed are bacteria, yeasts or fungi.
- 6. (Original) Process according to Claim 1, characterized in that the microorganisms employed are yeasts and fungi of the genera Saccharomyces, Geotrichum, Candida, Pichia, Hansenula, Yarrowia, Rhizopus, Mortierella, Mucor, Sporotrichum, Rhodotorula, Trichoderma, Aspergillus, Penicillium, Pullaria, Cunninghamella and Curvularia.
- 7. (Original) Process according to Claim 1, characterized in that the sum of the concentrations of the compounds of the formulae (I) and (II) in the cell suspension is between 1 and 900 mM.
- 8. (Original) Process according to Claim 1, characterized in that the process is carried out in the presence of an organic solvent.
- 9. (Original) Process according to Claim 1, characterized in that the compounds produced are selected from the group consisting of methyl (S)-3-hydroxy-3-(2-thiophenyl)propanoate, ethyl (S)-3-hydroxy-3-(2-thiophenyl)propanoate, methyl (S)-3-hydroxy-3-(3-thiophenyl)propanoate, ethyl (S)-3-hydroxy-3-(3-thiophenyl)propanoate, methyl (S)-3-hydroxy-3-(2-furanyl)propanoate, ethyl (S)-3-hydroxy-3-(3-furanyl)propanoate, ethyl (S)-3-hydroxy-3-(3-furanyl)propanoate, ethyl (S)-3-hydroxy-3-(3-furanyl)propanonitrile, (S)-3-hydroxy-3-(2-furanyl) propanonitrile, (S)-3-hydroxy-3-(2-furanyl) propanonitrile, (S)-3-hydroxy-3-(2-pyridinyl)propanonitrile, (S)-3-hydroxy-3-(2-pyridinyl)propanonitrile, (S)-3-hydroxy-3-(4-pyridinyl)propanonitrile and N-(methyl)-(S)-3-hydroxy-3-(2-thiophenyl)propanamide.
- 10. (Original) Process for preparing enantiomer-enriched compounds of the formula (VI),

heteroaryl-CH(OH)-CH₂-CH₂-NR²R³ (VI)

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in which

heteroaryl has the same meaning as that given under formula (I), and

R² and R³ are, in each case independently of each other, hydrogen, C₁-C₈-alkyl, C₄-C₁₄-aryl or C₅-C₁₅-arylalkyl, or the two radicals R² and R³ are together C₃-C₁₂-alkylene, comprising

in a step a),

converting compounds of the formula (I) in accordance with Claim 1, into enantiomer-enriched compounds of formula (II)

heteroaryl-CH(OH)-CH₂-CO-CH₂W (II)

where, in each case,

heteroaryl and W have the meanings mentioned under formula (I), and in a step b)

i) when W is COOR¹ and R¹ is hydrogen, C₁-C₈-alkyl, C₄-C₁₀-aryl or C₅-C₁₁-arylalkyl,

reacting the enantiomer-enriched compounds of formula (II) with amines of the formula (III)

 HNR^2R^3 (III)

in which R² and R³ have the meaning mentioned under formula (VI), to give enantiomer-enriched compounds of the formula (IV)

heteroaryl-CH(OH)-CH₂-CO-NR²R³ (IV)

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in which heteroaryl, R^2 and R^3 have the previously mentioned meanings, or ii)when W is $CON(R^1)_2$ and the R^1 radicals are in each case, independently of each other, hydrogen, C_1 - C_8 -alkyl, C_4 - C_{10} -aryl or C_5 - C_{11} -arylalkyl, or the two R^1 radicals are together C_3 - C_5 -alkylene,

converting the enantiomer-enriched compounds of the formula (II) by reacting with amines of the formula (III), into enantiomer-enriched compounds of the formula (IV), and

when W is CN, converting the compounds of the formula (II) directly, by aminolysis/hydrolysis, into compounds of the formula (IV), or converting initially hydrolysis, partial hydrolysis or mixed alcoholysis/hydrolysis, into compounds of the formula (V)

heteroaryi-CH(OH)-CH₂-CO-R⁴ (V)

in which heteroaryl has the meaning given under formula (I)

and R⁴ is OR¹ or NH₂, where R¹ has the abovementioned meaning, and

converting by amidation into enantiomer-enriched compounds of the formula (IV)

in a step c),

converting the enantiomer-enriched compounds of the formula (IV) by reduction, into enantiomer-enriched compounds of the formula (VI) having the abovementioned meaning.

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- 11. (Original) Process according to Claim 10, characterized in that, in the formulae (III), (IV) and (VI), R² and R³ are, in each case independently, hydrogen, methyl, ethyl, isopropyl, phenyl or benzyl.
- 12. (Original) Process according to Claim 10, characterized in that compounds of the formula (I) in which W is not CN are obtained by reacting compounds of the formula (VII)

heteroaryl-CO-CH₃

(VII)

in which heteroaryl has the meaning mentioned under formula (I),

with compounds of the formula (VIII),

R¹-O-W (VIII)

in which

R¹ and W have the same meanings as those which were given under the formula (I), with W not being CN, in the presence of a base.

- 13. (Original) Process according to Claim 10, characterized in that the reduction of compounds of the formula (VI) is effected using complex boron hydrides or aluminium hydrides.
- 14. (Original) Process according to Claim 10, characterized in that (1S)-3-(methylamino)-1-(2-thiophenyl)-1-propanol, (1R)-3-(methylamino)-1-(2-thiophenyl)-1-propanol or (1R)-3-(dimethylamino)-1-(2-thiophenyl)-1-propanol is prepared.
- 15. (Original) Process according to Claim 10, characterized in that in a further step d),

the enantiomer-enriched compounds of the formula (VI) are reacted, in the presence of base, with compounds of the formula (XI)

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R⁶-Hal

(XI)

in which

is phenyl or naphthyl which is optionally substituted, once or more than once, by substituents which are selected, in each case independently of each other, from the group cyano, CO-(C₁-C₁₂-alkyl), O-(C₁-C₁₂-alkyl), (C₁-C₁₂-alkyl), fluorine, chlorine, bromine and C₁-C₁₂-fluoroalkyl, and

Hal is fluorine, chlorine, bromine or iodine,

to give enantiomer-enriched compounds of the formula (X),

in which heteroaryl, R^2 and R^3 have the meaning given under formula (I) and R^3 has the meaning given under formula (XI).

16. (Original) Process according to Claim 15, characterized in that (\$)-N-methyl-3-(1-naphthalenyloxy)-3-(2-thienyl)propylamine and (R)-N-methyl-3-(1-naphthalenyloxy)-3-(2-thienyl)propylamine, or their ammonium salts, are prepared.

17-18 (Cancelled)

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